## PATENT COOPERATION TREATY

# **PCT**

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION See Form PCT/IPEA/416							
2021320PC/or								
International application No.	International filing date (day)	month/year) Priority date (day/month/year)						
PCT/FI2004/000642	29-10-2004	30-10-2003						
International Patent Classification (IPC) or national classification and IPC								
H01L23/24, H02M5/00, G01K3/00								
Applicant								
ABB OY et al								
This report is the international preliminary examination report, established by this International Preliminary Examining     Authority under Article 35 and transmitted to the applicant according to Article 36.								
2. This REPORT consists of a total of 3 sheets, including this cover sheet.								
3. This report is also accompanied by ANNEXES, comprising:								
a. (sent to the applicant	and to the International Bure	au) a total of sheets, as follows:						
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).								
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.								
b (sent to the Internation	- · · · · · · · · · · · · · · · · · · ·	dicate type and number of electronic carrier(s))						
, containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).								
This report contains indications relating to the following items:								
	of the report							
Box No. II Priority								
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability								
I <u></u>								
Box No. V Reason								
1	documents cited							
Box No. VII Certair	defects in the international application							
i	observations on the international application							
Dox 110. 4 III Cottain observations on the international application								
Date of submission of the demand		Date of completion of this report						
25-07-2005		07-11-2005						
Name and mailing address of the IPEA/SE		Authorized officer						
Patent- och registreringsverket								
Box 5055 s-102 42 STOCKHOLM Tomas Erlandsson /LR								
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Form PCT/IPEA/409 (cover sheet) (April 2005)

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## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/FI2004/000642

Box No.	o. I Basis of the report	<del></del>
1. Wit	ith regard to the language, this report is based on:	
	the international application in the language in which it was filed	
	a translation of the international application into which is the language of a translation furnished for the purposes of:	·
	international search (Rules 12.3(a) and 23.1(b))	
	publication of the international application (Rule 12.4(a))	
	international preliminary examination (Rules 55.2(a) and/or 55.3(a))	
furr	ith regard to the elements of the international application, this report is based on (replacement sheet raished to the receiving Office in response to an invitation under Article 14 are referred to in this report id are not annexed to this report):  the international application as originally filed/furnished	ets which have been as "originally filed"
	the description:	
L	pages as origina	Ilv filed/furnished
	pages* received by this Authority on	
	pages* received by this Authority on	
	the claims:	
<u> </u>	pages as origina	lly filed/furnished
	pages* as amended (together with any statement	-
	pages* received by this Authority on	
	pages* received by this Authority on	
	the drawings:	
	pages as origina	lly filed/furnished
	pages* received by this Authority on	
	pages* received by this Authority on	
	a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.	
3.	The amendments have resulted in the cancellation of:	
	the description, pages	
	the claims, Nos.	
	the drawings, sheets/figs	
	the sequence listing (specify):	
	any table(s) related to the sequence listing (specify):	
4.	This report has been established as if (some of) the amendments annexed to this report and listed made, since they have been considered to go beyond the disclosure as filed, as indicated in the Sup 70.2(c)).	
	the description, pages	
	the claims, Nos.	
	the drawings, sheets/figs	
	the sequence listing (specify):	
	any table(s) related to the sequence listing (specify):	
	any monetary related to the sequence fishing (specify).	
	item 4 applies, some or all of those sheets may be marked "superseded."	
F DC	CT/IDEA/400 (Pay No. 1) (April 2005)	

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/FI2004/000642

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1. Statement				
Novelt	y (N)	Claims Claims	1-10	YES NO
Inventi	ive step (IS)	Claims Claims	1-10	YES NO
Industr	rial applicability (IA)	Claims Claims	1-10	YES NO

2. Citations and explanations (Rule 70.7)

Documents cited in the International Search Report:

D1: JP 11255442 A
D2: EP 0792008 A2
D3: JP 2001186775 A
D4: US 5712802 A

The cited documents represent the general state of the art.

The invention defined in claims 1-10 is not disclosed by any of these documents.

The cited prior art does not give any indication that would lead a person skilled in the art to the claimed inverter arrangement. Therefore, the claimed invention is not obvious to a person skilled in the art.

Accordingly, the invention defined in claims 1-10 is novel and is considered to involve an inventive step. The invention is industrially applicable.